

ABSTRACT OF THE DISCLOSURE

An air processing cylinder useful in drying, curing, thermal bonding, cooling, and web transferring materials such as fabrics, papers, and the like. Air is exhausted out of the cylinder surface through a plurality of conduits equipped with distribution means for profiling the flow of air. The drying cylinder further includes a duct network on its outer shell for exhausting air out of one axial area only or, alternatively, the drying cylinder may contain multiple duct networks for exhausting air out of several axial areas, each having its own flow characteristics.